ontents 7	Reference to last Measurement 8

First & Final Bill

TJR#:- 110
29/6/13

SBR No:- 66/13-14
27/6/13

M.A.R. 57 (Rule 116)

Measurement Book

No. C/09 197651

Serial No.....

Name of work..Construction of RCC Drain covering Slab and Improvements From..... To.....
to Roads at Kallappa Layout in Ward No-10, CDoddabommasandra)

Name of Contractor of nature of Agency..Sri. N. Naveen Rao (Mitchal construction)

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Work Code No;-	010-13-000014.					
	Head of Account;-	P 1771				A.S No 740/2012-13 Dt 7/11/2013 T.S No 367/2012-13 Dt 10/11/2013	
	Work order No;-	EE/BTP/BBMP/E-prod/USUG/410/1140/2012-13. Dt - 16-03-2013.					
	Address of Agency;-	#363, 1st cross, 10th Main Road Sampige Layout, Vijayanagara, Bangalore-					

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	1) Earth work excavation for foundation of building, culverts, water supply Sanitary, line and electrical conduits either in pits or in trenches 1.5m. and above in width, in ordinary soil not exceeding 1.5m. in depth including dressing the bottom and sides of pits and trenches.						
	Kallapa Layout	2	30.00	1.00	0.70 =	42.00 Cum	
		2	30.00	1.00	0.70 =	42.00 Cum	
		2	30.00	1.00	0.70 =	42.00 Cum	
		2	30.00	1.00	0.70 =	42.00 Cum	
		2	30.00	1.00	0.70 =	42.00 Cum	
		2	30.00	1.00	0.70 =	43.40 Cum	
		2	30.00	1.00	0.70 =	21.00 Cum	
	Cross Road RHS	1	30.00	1.00	0.70 =	10.15 Cum	
		1	14.50	1.00	0.70 =	16.80 Cum	
		1	24.00	1.00	0.70 =	17.01 Cum	
	Cross Road LHS	1	24.30	1.00	0.70 =		
					Total =	318.36 Cum	

C&FC

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ,
ಯಲಹಂಕ ವಲಯ,
ಬಿ. ಬಿ. ಮ. ಸಾ. ಬೆಂಗಳೂರು-97

Serial No.....

Name of work.....

Name of Contractor of

Date of commencemen

Date	Full description,
1	2
	2) providing a OPC cemen Coarse agg mixed, con Kallappa L LHS & RHS

ontents 7	Reference to last Measurement 8
culverts water supply or in trenches 1.5cm. g 1.5cm. in depth d trenches.	
.00 cum	
2.00 cum	
2.00 cum	
2.00 cum	
2.00 cum	
3.40 cum	
1.00 cum	
.15 cum	
5.80 cum	
.01 cum	
8.36 cum	

C&Fc

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ,
ಯಲಹಂಕ ವಲಯ,
ಬಿ. ಬಿ. ಮ. ಸಾ. ಬೆಂಗಳೂರು-97

M.A.R. 57 (Rule 116)

Measurement Book No. C/09 197652

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
			Qty limited to Tender			= 292.32 Cum	
			@ Rs	130.00		Rs 38002.00	
2)	Providing and laying in position plain cement concrete of mix M7.5 with OPC cement @ 180 kgs with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 0.57 cum machine mixed, concrete laid in layers not exceeding 15cms. thick well compacted,						
	Kalappa Layout						
	LHS & RHS	2	30.00	1.00	0.15 =	9.00 cum	
		2	30.00	1.00	0.15 =	9.00 cum	
		2	30.00	1.00	0.15 =	9.00 cum	
		2	30.00	1.00	0.15 =	9.00 cum	

C&Fc

R

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ,
ಯಲಹಂಕ ವಲಯ,

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		2	30.00	1.00	0.15 =	9.00Cum	
		2	36.00	1.00	0.15 =	9.30Cum	
	Cross Road RHS	1	30.00	1.00	0.15 =	4.50 Cum	
		1	14.50	1.00	0.15 =	2.18Cum	
		1	24.00	1.00	0.15 =	3.60 Cum	
	Cross Road LHS	1	24.00	1.00	0.15 =	3.65Cum	C&Fc
					total =	68.~~23~~Cum	
					Qty limited to Tender =	67.05Cum	
					@ RS 3956.00	RS 265250.00	
3)	providing and removing centering, shuttering, Struthing, propping etc and removal of ~~form~~ work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials.						
	Kallappa Layout LHS & RHS	2x4	30.00		0.60 =	144.00Sqm	
		2x4	30.00		0.60 =	144.00Sqm	

Serial No.....

Name of work.....

Name of Contractor of nature of A

Date of commencement of work....

Date	Full description, etc, of work
1	2
	Cross Road RHS
	Cross Road LHS

epth 6	Contents 7	Reference to last Measurement 8
15 =	9.00 Cum	
15 =	9.30 Cum	
25 =	4.50 Cum	
5 =	2.18 Cum	
25 =	3.60 Cum	C&Fc
15 =	3.65 Cum	
al =	68.83 Cum	
=	67.05 Cum	

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ
ಯಲಹಂಕ ವಲಯ,
ಬೆಂಗಳೂರು-97

RS 265250.00

g. Struthing propping etc
ft of beams, beam
nd lintels not exceeding 1m

60 =	144.00 Sqm	
60 =	144.00 Sqm	

M.A.R. 57 (Rule 116)

Measurement Book

No. C/09 197653

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		2x4	30.00		0.60 =	144.00 Sqm	
		2x4	30.00		0.60 =	144.00 Sqm	
		2x4	30.00		0.60 =	144.00 Sqm	
		2x4	31.00		0.60 =	148.80 Sqm	
	Cross Road RHS	1x4	30.00		0.60 =	72.00 Sqm	C&Fc
		1x4	14.50		0.60 =	34.80 Sqm	
		1x4	24.00		0.60 =	57.60 Sqm	
	Cross Road LHS	1x4	24.30		0.60 =	58.32 Sqm	
					Total =	1091.52 Sqm	
		Qty limited to Tender			=	1072.80 Sqm	
		@ RS 220.00				RS 236016.00	

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ
ಯಲಹಂಕ ವಲಯ,
ಬೆಂಗಳೂರು-97

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	a) providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal, coarse aggregates @ 0.87 cum and fine aggregates @ 0.459 cum with superplastisizer @ 3lts conforming to IS 9103 – 1999 machine mixed, concrete laid in layers not exceeding 15cms thick.						
	Kallappa Layout LHS & RHS	2	30.00	0.90	0.15 =	8.10 cum	
		2	30.00	0.90	0.15 =	8.10 cum	
		2	30.00	0.90	0.15 =	8.10 cum	
		2	30.00	0.90	0.15 =	8.10 cum	
		2	30.00	0.90	0.15 =	8.10 cum	
		2	31.00	0.90	0.15 =	8.37 cum	
	Cross Road RHS	1	30.00	0.90	0.15 =	4.05 cum	
		1	14.50	0.90	0.15 =	1.96 cum	
		1	24.00	0.90	0.15 =	3.24 cum	
	Cross Road LHS	1	24.30	0.90	0.15 =	3.28 cum	

C&F C

ಮಾಲೀಕರಿಂದ ಅಭಿಪ್ರಾಯವನ್ನು ಯಾವುದೇ ಬದಲಾವಣೆ ಇಲ್ಲದೆ ಇರುವುದು.

Serial No.....

Name of work.....

Name of Contractor of nature o

Date of commencement of wor

Date	Full description, etc, of wo
1	2
	Side walls
	Kallappa Layout LHS & RHS
	Cross Road RHS
	Cross Road LHS

ntents 7	Reference to last Measurement 8
concrete of design nd down size cum and time confirming to ers not exceeding	
0 Cum —	
0 Cum —	
0 Cum —	
10 Cum —	
10 Cum —	
37 Cum —	
0 Scum —	
6 Cum —	
uCum —	
28 Cum —	

C&F.C

ಪಿ.ಡಬ್ಲ್ಯೂ.ಡಿ ಇಲಾಖೆ ಅಧಿಕಾರಿಗಳು, ಮಾರ್ಗದರ್ಶನ ಮತ್ತು ಪಾಲನಾ, ಮಂಡಲ ವಲಯ, ನಂ. ಬೆಂಗಳೂರು-9

M.A.R. 57 (Rule 116)

Measurement Book

No. C/09 197654

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Side walls						
	Kallappa Layout LHS & RHS	2x2	30.00	0.15	0.50 =	9.00 Cum	—
		2x2	30.00	0.15	0.55 =	9.90 Cum	
		2x2	30.00	0.12	0.50 =	7.20 Cum	—
		2x2	30.00	0.12	0.50 =	7.20 Cum	—
		2x2	30.00	0.15	0.55 =	9.90 Cum	C&F.C.
		2x2	31.00	0.12	0.50 =	7.44 Cum	
	Cross Road RHS	2	30.00	0.15	0.50 =	4.50 Cum	—
		2	14.50	0.12	0.50 =	1.74 Cum	24/6/2013
		2	24.00	0.15	0.50 =	3.60 Cum	—
	Cross Road LHS	2	24.30	0.15	0.50 =	3.65 Cum	—
					total =	125.52 Cum	—

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		Qty limited to Tender =				107.28 Cum	
		@ RS 5335.00				RS 572339.00	
	5) providing T.M.T. Steel reinforcement for R.C.C. work including Straightening cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary.						
	Qty vide Page no 197693 of this M.B.no 1977					= 53.64 QtL	
		@ RS 7459.00				RS 400101.00	
	6) Filling available excavated earth (excluding rocks) in sides of foundations upto plinth in layers not exceeding 20cms in depth, compacting each deposited layers by ramming after watering with lead upto 50m and lift upto 1.5m, including cost of all labour etc						

Serial No.....

Name of work.....

Name of Contractor of nature o

Date of commencement of work

Date	Full description, etc, of wo
1	2
	Kallappa Layout LHS RHS
	Cross Road RHS
	Cross Road LHS

Contents 7	Reference to last Measurement 8
07.28 Cum	
RS 572339.00	
including Straightening ding and/or welding d anchoring to the	
53.64 QH	
RS 40010/.00	
n Sides of foundations PH, compacting each l lead upto 50m r etc	

M.A.R. 57 (Rule 116)

Measurement Book No. C/09 197655

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Kallappa Layout LHS & RHS	4	30.00	0.30	0.60 =	21.60 Cum	
		2	30.00	0.30	0.60 =	10.80 Cum	
		2	30.00	0.30	0.60 =	10.80 Cum	
		2	30.00	0.30	0.60 =	10.80 Cum	
		2	30.00	0.30	0.60 =	10.80 Cum	
		2	31.00	0.30	0.60 =	11.16 Cum	
	Cross Road RHS	2	30.00	0.30	0.60 =	10.80 Cum	
		2	14.50	0.30	0.60 =	5.22 Cum	
		2	24.00	0.30	0.60 =	8.64 Cum	
	Cross Road LHS	2	24.30	0.30	0.60 =	8.75 Cum	
					Total =	109.37 Cum	
		Qty limited to Tender =				107.28 Cum	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		@ RS 88.00				RS 944.00	
	7) Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means including loading and unloading, etc						
	Qty vide Item no-1				=	166.54 cum	
		@ RS 92.00				RS 1532.00	
	8) providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc complete 10 cms thick etc complete as per specifications						
	Kallappa Layout LHS / RHS	2	30.00		0.75 =	45.00 Sqm	
		2	30.00		0.75 =	45.00 Sqm	
		2	30.00		0.75 =	45.00 Sqm	
		2	30.00		0.75 =	45.00 Sqm	
		2	30.00		0.75 =	45.00 Sqm	

Serial No.....

Name of work.....

Name of Contractor of nature of

Date of commencement of work

Date	Full description, etc, of wor
1	2
	Cross Road RHS
	Cross Road LHS

pth 6	Contents 7	Reference to last Measurement 8
		Rs 944.00
	at carriage rates by unloading, etc	
=	166.54 Cum	
		Rs 1532.00
	ughly dressed and fixed etc complete 10 cms thick	
=	45.00 Sqm	
=	45.00 Sqm	
=	45.00 Sqm	
=	45.00 Sqm	
=	45.00 Sqm	

M.A.R. 57 (Rule 116)

Measurement Book No. C/09 197656

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Cross Road RHS	2	33.00		0.75 =	49.50 Sqm	
		1	30.00		0.90 =	27.00 Sqm	
		1	14.50		0.90 =	13.05 Sqm	
		1	24.00		0.90 =	21.60 Sqm	
	Cross Road LHS	1	24.30		0.90 =	21.87 Sqm	
					Total =	358.02 Sqm	
		Qty limited to Tender =				357.60 Sqm	
		@ Rs 472.00				Rs 168787.00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	9) providing chamfering edges to stone slab 2.5cms wide as per specifications (only chamfered length shall be recorded) etc.						
		944	3.00			= 2832.00 meter	
						Qty limited to tender = 2790.00 meter	
						@ Rs 24.00	
							Rs 66982.00
	10) providing two line dressing to granite stone slab / granite stone masonary etc complete as per specifications.						
						Qty vide Item no-8 = 357.60 Sqm	
						@ Rs 634.00	
							Rs 226718.00
						Total	Rs 1998957.00
	Certificate: Certified that the above work done satisfactory and no materials supplied from departmentally						

Jadhav
AE 27/6/2013

ಕಾರ್ಯಪಾಲಕ ಎಂಜಿನಿಯರ್ ಅಭಿಯಂತರರ ಕಛೇರಿ
ಕಾರ್ಯಾಲಯ ವಲಯ,
ಬೃ. ಬೆಂ. ಮ. ಪಾ., ಬೆಂಗಳೂರು-23

Serial No.....

Name of work.....

Name of Contractor of nature of

Date of commencement of work..

Date	Full description, etc, of work
1	2
	Sketch Showing -

Jadhav
AE